ABSTRACT

The invention provides methods for the prediction of an epitope in a target protein. An epitope of the target protein can be bound by a given molecule, e.g., by an antibody. In particular, the methods of the invention comprise (i) identifying a plurality of cross-reactive proteins, i.e., proteins that can be bound by the same molecule, e.g., by the same antibody, as the target protein using, e.g., protein microarrays; and (ii) comparing the amino acid sequences of the target protein and the cross-reactive proteins with each other to identify windows of sequence homology, wherein the windows of sequence homology correspond to the epitope.

10

5